

ABSTRACT

After emission of an acoustic pulse, having a first duration, from a given location, acoustic signals coming from the location are gathered through a multi-scattering medium on an array of transducers and recorded, for a second duration greater by at least one order of magnitude than the first duration. Return signals obtained by temporal inversion and amplification of the signals gathered during the second duration are emitted back from said transducers toward the multiscattering medium in order to focus acoustic energy to the location while providing temporal compression of the focussed acoustic energy.